FS 2.6/9:13/37

Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER 634-5131

For release October 2, 1964 ATLANTA, GEORGIA 30333 Vol. 13, No. 39

UNIVERSITY OF FLORIDA LIBRARIES OCT 1964

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED SEPTEMBER 26, 1964

PSITTACOSIS SURVEILLANCE SUMMARY ISSUE

EPIDEMIOLOGIC NOTES

Poliomyelitis – There were 3 cases of poliomyelitis reported for the week ending September 26. This brings the 1964 total to 89 cases of poliomyelitis, 71 paralytic. These totals represent less than one-third the number of total and paralytic cases reported during the corresponding period in 1963; the previous record low year.

Polio (Cumulated Weekly) through 39th Week for Five Years

	1964	1963	1962	1961	1960
Paralytic	71	258	473	594	1,573
Total	89	303	608	923	2,290

The low incidence of poliomyelitis during 1964 is even more impressive when the current reporting during the past six weeks is compared to previous years.

Six-Week Totals (34th thru 39th Week) for Five Years

	1964	1963	1962	1961	1960
Paralytic	14	103	176	272	699
Total	21	121	219	441	1,066

There have been no outbreaks reported thus far in 1964.

Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

Disease	39th Week Ended			Cumulative, First 39 Weeks		
	September 26, 1964	September 28, 1963	Median 1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	109	72	---	1,509	1,328	---
Brucellosis	2	5	7	319	278	461
Diphtheria	2	8	16	187	186	411
Encephalitis, primary infectious	79	53	---	2,357	1,213	---
Encephalitis, post-infectious	10		---	699		---
Hepatitis, infectious including serum hepatitis	670	763	840	29,014	32,635	32,635
Measles	608	850	848	435,425	360,082	388,395
Meningococcal infections	35	31	30	2,055	1,833	1,660
Poliomyelitis, Total	3	27	74	89	303	923
Paralytic	2	23	37	71	258	594
Nonparalytic	1	4	---	11	30	---
Unspecified	-	-	---	7	15	---
Streptococcal Sore Throat and Scarlet fever	4,681	3,922	---	304,515	259,262	---
Tetanus	4	12	---	210	198	---
Tularemia	8	8	---	253	218	---
Typhoid fever	12	9	27	317	392	600
Rabies in Animals	67	53	53	3,480	2,893	2,893

Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	3	Psittacosis: Calif. - 1	35
Botulism:	11	Rabies in Man:	1
Leptospirosis: Hawaii - 1, Calif. - 1	34	Smallpox:	-
Malaria: Calif. - 1, Wash. - 1	71	Typhus-	
Plague:	-	Murine: Ala. - 1	21
		Rky Mt. Spotted: N.C. - 2, Ga. - 1, Tenn. - 3	203

PSITTACOSIS SURVEILLANCE

During 1963, 76 cases of psittacosis in humans were reported. Seventy-nine cases were reported in 1962; this is approximately one-half the annual number reported 5 years ago, and only 13 percent of the total human cases recorded in 1954.

The 1963 cases occurred in 19 States. A majority of the total cases were reported by 3 States: Texas (17), California (14), and Illinois (11). A map depicting the distribution of cases by State is shown below.

To date this year, there are 35 cases of psittacosis reported. California has the largest number of cases of any State with 13 (37%).

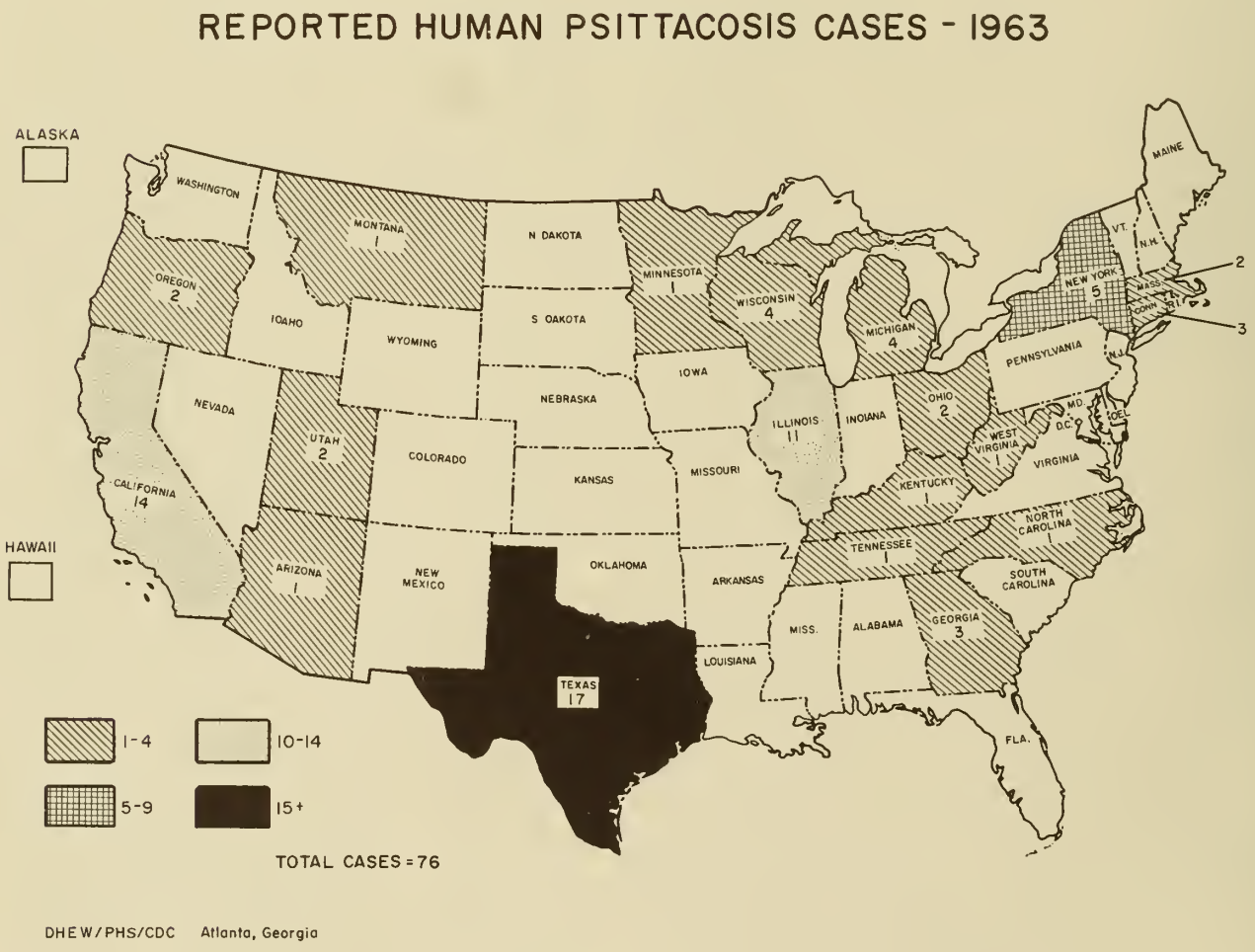
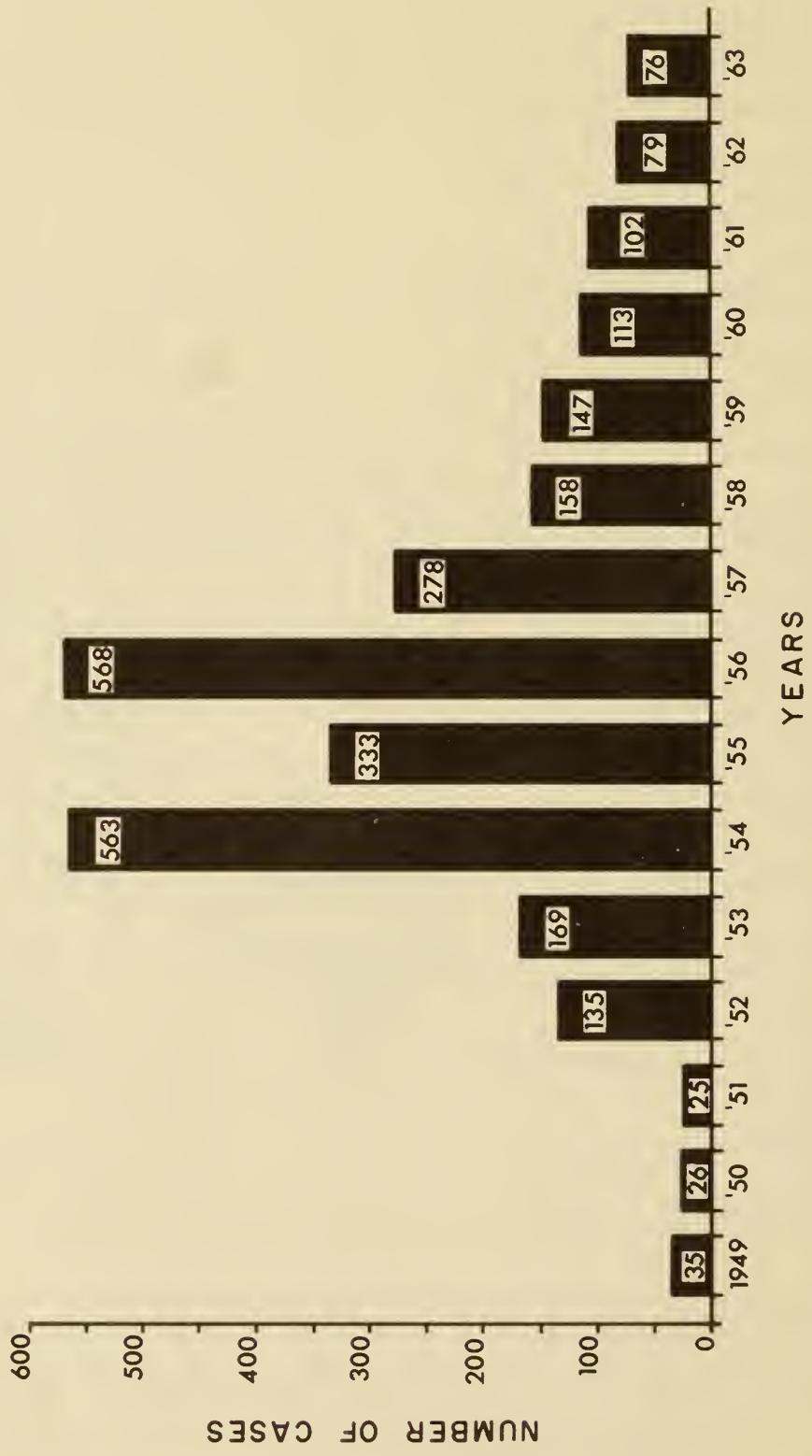


Table 1 on the next page (p. 339) lists the reported cases of psittacosis in each state during the past 10 years. The histogram on page 340 graphically represents the number of reported cases each year since 1949. The peak incidence of cases occurred in 1956 with 568 cases. There was a large number of cases reported in 1954 and 1955. This increase in reported cases during these years is believed due primarily to recognition of cases acquired from commercial poultry.

TABLE I
REPORTED PSITTACOSIS CASES

STATE	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963
Alabama	4	2	1	1	1	2	-	-	-	-
Alaska	1	-	-	-	-	-	-	-	1	-
Arizona	1	-	1	1	-	-	1	-	1	1
Arkansas	-	2	-	1	-	-	1	-	-	-
California	65	40	56	27	17	17	12	10	10	14
Colorado	20	2	5	4	-	2	1	-	2	-
Connecticut	10	2	5	10	1	7	4	2	6	3
Delaware	5	-	1	-	-	-	-	1	-	-
Dist. of Col.	1	-	-	-	1	-	-	-	-	-
Florida	1	-	-	-	1	-	-	-	-	-
Georgia	6	14	10	11	2	3	-	2	-	3
Hawaii	-	-	-	-	-	-	-	-	-	-
Idaho	-	15	2	4	2	5	-	1	-	-
Illinois	32	40	39	18	7	11	7	7	4	11
Indiana	-	-	5	3	-	-	-	-	1	-
Iowa	10	8	7	5	6	1	-	-	-	-
Kansas	1	2	1	-	1	1	1	-	-	-
Kentucky	-	3	2	-	-	-	2	-	-	1
Louisiana	-	4	2	-	-	-	-	-	-	-
Maine	-	-	3	-	2	5	-	-	-	-
Maryland	4	3	5	5	1	-	-	-	1	-
Massachusetts	13	3	12	5	3	2	2	3	1	2
Michigan	-	1	7	3	5	2	3	2	3	4
Minnesota	16	32	64	36	22	22	4	2	4	1
Mississippi	1	-	4	-	-	1	-	-	-	-
Missouri	5	2	3	1	2	-	-	-	4	-
Montana	6	3	5	2	-	-	-	-	2	1
Nebraska	-	-	-	-	2	-	-	-	-	-
Nevada	-	-	-	-	-	-	-	-	-	-
New Hampshire	-	-	1	-	1	-	-	-	-	-
New Jersey	17	10	2	-	2	-	-	1	1	-
New Mexico	-	2	-	-	1	1	-	-	-	-
New York	34	36	48	24	18	13	9	6	6	5
North Carolina	11	9	75	4	2	-	-	1	3	1
North Dakota	1	3	5	-	-	-	-	-	-	-
Ohio	13	14	13	10	3	1	1	-	1	2
Oklahoma	-	3	-	2	-	-	-	-	-	-
Oregon	5	6	45	15	9	1	3	2	1	2
Pennsylvania	37	15	22	30	9	25	27	6	5	-
Rhode Island	-	1	1	-	-	-	-	-	-	-
South Carolina	3	2	1	1	1	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	1	-	-
Tennessee	5	3	23	7	4	3	8	6	1	1
Texas	201	13	33	6	2	4	-	23	-	17
Utah	-	1	2	7	1	-	1	3	1	2
Vermont	-	-	-	-	1	-	-	-	-	-
Virginia	12	10	18	10	4	-	-	1	-	-
Washington	15	9	25	5	1	1	2	2	-	-
West Virginia	-	-	-	-	-	-	-	1	-	1
Wisconsin	6	18	14	20	22	17	24	18	20	4
Wyoming	2	-	-	-	1	-	-	1	-	-
TOTALS	564	333	568	278	158	147	113	102	79	76

Source: Annual supplements, NOVS and CDC


REPORTED HUMAN PSITTACOSIS CASES
1949–1963
NUMBER OF CASES
0
100
200
300
400
500
600
35
26
25
135
169
563
333
568
278
158
147
113
102
79
76
1949
'50
'51
'52
'53
'54
'55
'56
'57
'58
'59
'60
'61
'62
'63
YEARS
SOURCE: NOVS and MMWR
DHEW/PHS/CDC, ATLANTA, GA.
REVISED OCT. 1964

TEN YEAR SUMMARY OF PSITTACOSIS SURVEILLANCE

The Communicable Disease Center has obtained epidemiologic data on the source of infection for 1,270 of the 2,418 human cases of psittacosis which have occurred since 1954. Parakeets were the source of infection in 747 cases. They are the traditional source of most human infections; however, they do not account for the increased number of cases recorded during the early years of this period. Data studied suggest that at least part of the increased incidence of psittacosis was due to a recognition of cases acquired from infected fowl.

TABLE 2
SOURCE OF INFECTION IN 2,418 HUMAN PSITTACOSIS CASES
UNITED STATES, 1954 – 1963

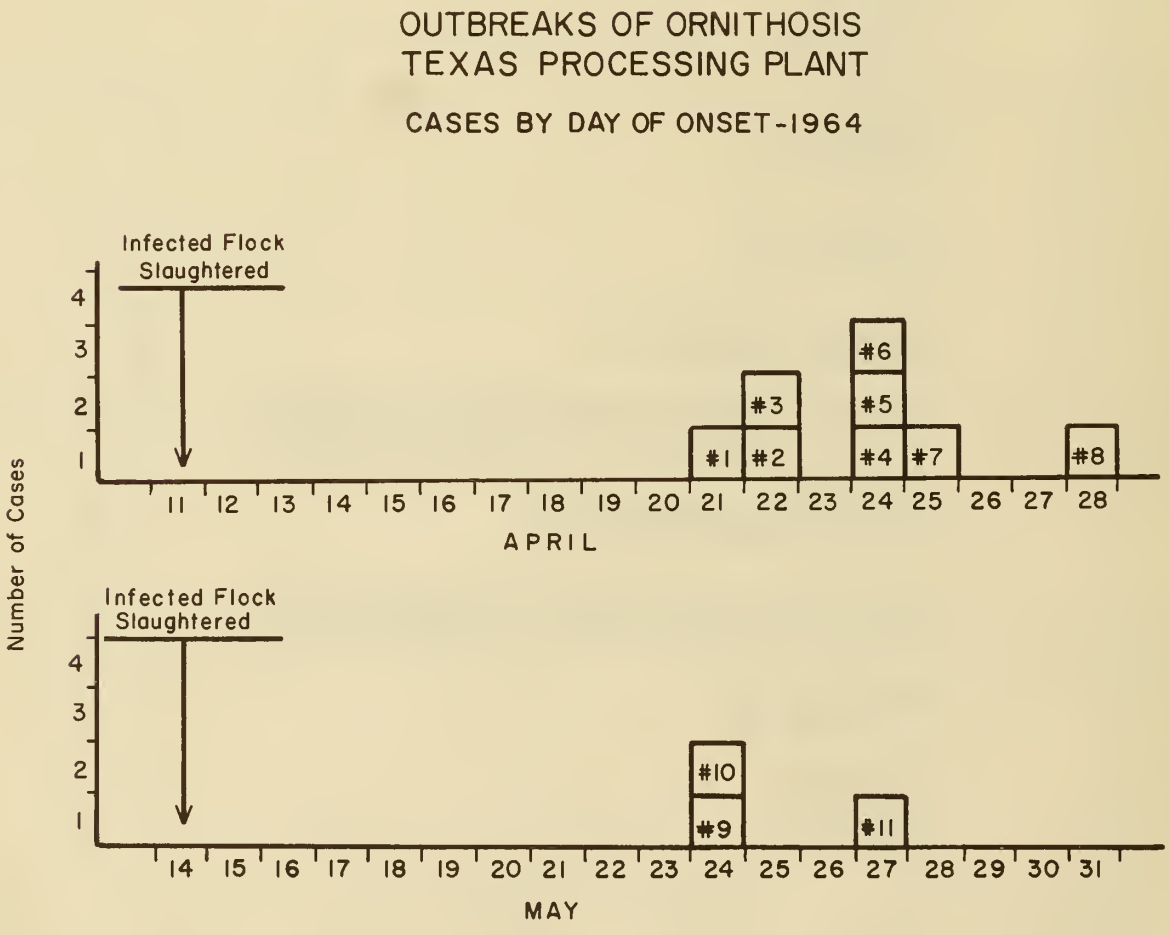
YEAR	PARAKEETS	TURKEYS	CHICKENS	DUCKS	PIGEONS	OTHER	UNKNOWN	TOTAL
1954	162	200	34	0	0	5	163	564
1955	129	3	5	0	0	5	191	333
1956	128	71	20	21	0	10	318	568
1957	117	1	2	0	8	4	146	278
1958	52	24	4	0	0	4	74	158
1959	58	5	7	0	6	5	66	147
1960	26	1	2	0	3	2	79	113
1961	33	27	3	0	1	5	33	102
1962	27	2	2	0	3	4	41	79
1963	15	11	0	1	9	3	37	76
TOTAL	747	345	79	22	30	47	1,148	2,418

When the human cases were grouped by exposure category, pet bird breeder, dealers and owners accounted for 579 of the 1,290 investigated cases while an additional 370 cases occurred among poultry processors. These individuals were exposed to infected turkeys or other domestic fowl.

TABLE 3
EXPOSURE CATEGORIES IN 2,418 HUMAN PSITTACOSIS CASES
UNITED STATES, 1954 – 1963

YEAR	PET BIRD BREEDER	PET BIRD DEALER	PET BIRD OWNER	POULTRY PROCESSOR	OTHER	UNKNOWN	TOTAL
1954	26	18	44	201	112	163	564
1955	6	27	96	6	7	191	333
1956	9	9	111	96	28	315	568
1957	8	12	73	0	47	138	278
1958	1	3	25	21	35	73	158
1959	3	5	17	4	38	80	147
1960	0	1	25	1	13	73	113
1961	1	2	21	27	23	28	102
1962	2	0	9	3	32	33	79
1963	0	3	22	11	6	34	76
TOTAL	56	80	443	370	341	1,128	2,418

The only significant common-source outbreak during 1963 occurred in Texas. At least 11 of the 17 reported cases from Texas occurred in individuals exposed to ornithosis-infected turkeys in a poultry processing plant. Between April 21 and May 27, 1963, 11 employees of a small turkey processing plant became ill with mild symptoms including chills, dry cough, chest pains, general malaise, and fever to 102° F. Complement fixation tests confirmed the diagnosis of psittacosis. Eight of these cases had onset dates between April 21 and April 28, 1963; 3 cases had onset dates between May 24 and May 27, 1963, thus indicating that there were 2 separate exposures, roughly one month apart (See graph below). Epidemiologic investigation by the Texas State Department of Health traced the outbreaks to 2 separate infected turkey flocks, one processed on April 11 and the second on May 14. (See MMWR Vol. 12, p. 369).

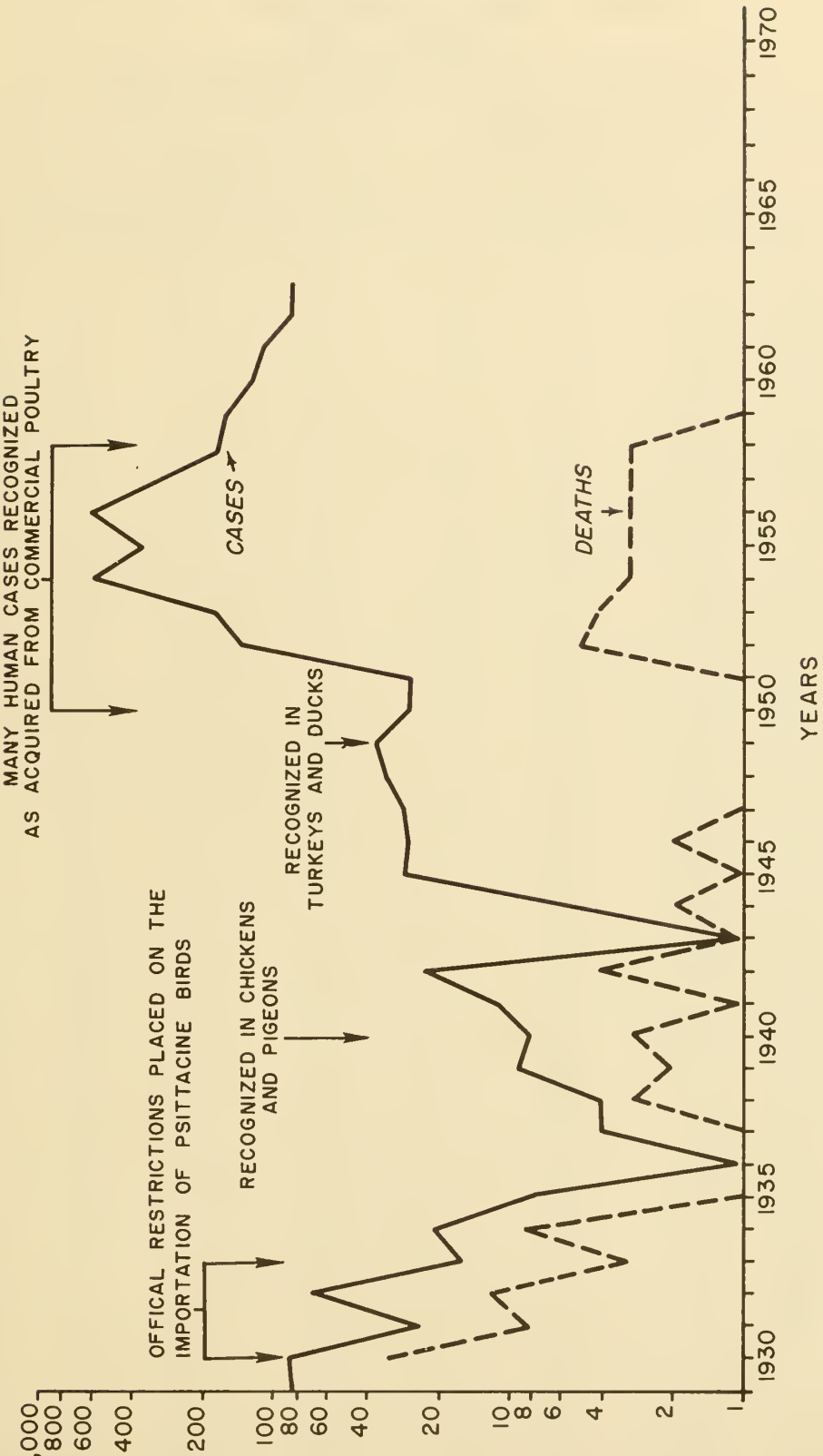


QUARANTINE REGULATIONS AND PSITTACOSIS

A review of the significant milestones in the history of psittacosis in the United States beginning in 1929, just prior to the major discoveries relating to the etiology and epidemiology of the disease, is presented in the figure on the following page. The isolation of the causative agent in 1930, coupled with numerous epidemics with a high case-fatality ratio, led to regulations controlling the importation of parrots, and later all psittacine birds into this country. Since then, the discovery of many new avian hosts and related etiologic agents has increased the epidemiologic complexity of the disease. At the same time, however, the introduction of antibiotics and effective control measures has reduced the public health significance of this zoonosis.

REPORTED PSITTACOSIS MORBIDITY AND MORTALITY

1929 - 1963



SOURCE: DHEW/PHS/CDC
Adapted from J.M.Andrews
JAVMA, 130(3): 109-116, 1957

REVISED: SEPTEMBER, 1964

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 26, 1964 AND SEPTEMBER 28, 1963 (39TH WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	109	72	79	10	3	27	89	303	2	23	71	258
NEW ENGLAND.....	4	-	-	-	-	1	2	5	-	1	2	5
Maine.....	-	-	-	-	-	1	-	2	-	1	-	2
New Hampshire.....	1	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts.....	3	-	-	-	-	-	-	2	-	-	-	2
Rhode Island.....	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	2	-	-	-	2	-
MIDDLE ATLANTIC.....	20	6	12	1	1	9	13	99	1	7	12	78
New York City.....	8	-	6	-	-	-	1	-	-	-	1	-
New York, Up-State.	6	4	-	1	1	1	10	8	1	-	9	5
New Jersey.....	5	-	6	-	-	-	2	1	-	-	2	1
Pennsylvania.....	1	2	-	-	-	8	-	90	-	7	-	72
EAST NORTH CENTRAL...	30	18	13	-	-	9	18	46	-	9	13	36
Ohio.....	13	2	4	-	-	-	2	8	-	-	2	4
Indiana.....	1	-	7	-	-	-	6	2	-	-	3	1
Illinois.....	11	9	2	-	-	2	5	14	-	2	5	13
Michigan.....	5	7	-	-	-	7	3	16	-	7	2	16
Wisconsin.....	-	-	-	-	-	-	2	6	-	-	1	2
WEST NORTH CENTRAL...	9	4	10	-	1	1	8	6	-	1	6	5
Minnesota.....	5	4	1	-	1	1	3	4	-	1	2	4
Iowa.....	-	-	-	-	-	-	-	-	-	-	-	-
Missouri.....	-	-	-	-	-	-	3	-	-	-	2	-
North Dakota.....	-	-	1	-	-	-	1	1	-	-	1	-
South Dakota.....	-	-	-	-	-	-	-	-	-	-	-	-
Nebraska.....	3	-	8	-	-	-	-	1	-	-	-	1
Kansas.....	1	-	-	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	4	11	6	-	-	2	24	41	-	1	19	37
Delaware.....	-	1	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	3	-	-	-	1	-	-	-	1	-
Dist. of Columbia..	-	1	-	-	-	-	-	-	-	-	-	-
Virginia.....	-	2	1	-	-	1	-	7	-	-	-	5
West Virginia.....	1	2	-	-	-	-	1	2	-	-	1	2
North Carolina.....	-	-	-	-	-	-	10	3	-	-	6	3
South Carolina.....	1	3	-	-	-	-	2	6	-	-	2	5
Georgia.....	-	-	-	-	-	-	1	14	-	-	1	13
Florida.....	2	2	2	-	-	1	9	8	-	1	8	8
EAST SOUTH CENTRAL...	1	11	4	-	-	4	6	61	-	3	5	56
Kentucky.....	1	-	1	-	-	-	-	-	-	-	-	-
Tennessee.....	-	-	3	-	-	1	3	10	-	-	2	9
Alabama.....	-	1	-	-	-	1	2	44	-	1	2	40
Mississippi.....	-	10	-	-	-	2	1	7	-	2	1	7
WEST SOUTH CENTRAL...	6	-	14	-	1	-	8	23	1	-	7	22
Arkansas.....	-	-	-	-	-	-	-	4	-	-	-	3
Louisiana.....	3	-	-	-	-	-	-	13	-	-	-	13
Oklahoma.....	-	-	-	-	-	-	2	-	-	-	2	-
Texas.....	3	-	14	-	1	-	6	6	1	-	5	6
MOUNTAIN.....	4	6	9	-	-	1	7	3	-	1	4	2
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	-	1	-	-	-	1
Wyoming.....	-	1	1	-	-	-	2	-	-	-	2	-
Colorado.....	4	2	8	-	-	1	1	1	-	1	1	1
New Mexico.....	-	-	-	-	-	-	3	1	-	-	-	-
Arizona.....	-	2	-	-	-	-	-	-	-	-	-	-
Utah.....	-	1	-	-	-	-	-	-	-	-	-	-
Nevada.....	-	-	-	-	-	-	-	-	-	-	-	-
PACIFIC.....	31	16	11	9	-	-	3	19	-	-	3	17
Washington.....	1	1	2	1	-	-	-	2	-	-	-	2
Oregon.....	-	-	-	-	-	-	1	2	-	-	1	1
California.....	30	15	9	8	-	-	2	15	-	-	2	14
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	-	-	-	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	5	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 26, 1964 AND SEPTEMBER 28, 1963 (39TH WEEK) - CONTINUED

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	2	319	2	187	670	305	328	37	29,014	32,635	12	317
NEW ENGLAND.....	-	2	1	45	54	24	29	1	2,690	3,538	1	14
Maine.....	-	-	-	39	15	9	6	-	853	1,595	-	-
New Hampshire.....	-	-	-	-	3	3	-	-	211	380	-	-
Vermont.....	-	-	-	-	4	3	1	-	335	68	-	-
Massachusetts.....	-	2	-	5	15	5	9	1	585	966	-	6
Rhode Island.....	-	-	1	1	6	-	6	-	149	80	-	6
Connecticut.....	-	-	-	-	11	4	7	-	557	449	1	2
MIDDLE ATLANTIC.....	-	5	-	7	157	74	83	-	6,454	6,476	2	50
New York City.....	-	-	-	3	20	4	16	-	994	1,004	1	23
New York, Up-State.	-	2	-	-	58	27	31	-	2,812	2,814	1	10
New Jersey.....	-	-	-	2	21	5	16	-	1,106	955	-	1
Pennsylvania.....	-	3	-	2	58	38	20	-	1,542	1,703	-	16
EAST NORTH CENTRAL...	-	42	-	8	92	43	39	10	4,554	5,277	2	73
Ohio.....	-	3	-	-	24	7	14	3	1,206	1,466	-	20
Indiana.....	-	1	-	1	4	2	2	-	392	472	1	21
Illinois.....	-	26	-	6	16	7	8	1	829	1,133	1	20
Michigan.....	-	6	-	1	40	26	14	-	1,804	1,969	-	9
Wisconsin.....	-	6	-	-	8	1	1	6	323	237	-	3
WEST NORTH CENTRAL...	-	135	-	26	30	14	14	2	1,559	1,438	-	27
Minnesota.....	-	7	-	11	3	1	1	1	172	219	-	3
Iowa.....	-	85	-	-	9	6	3	-	237	257	-	4
Missouri.....	-	10	-	1	5	1	3	1	385	517	-	10
North Dakota.....	-	2	-	2	1	-	1	-	58	52	-	2
South Dakota.....	-	16	-	1	4	3	1	-	120	104	-	1
Nebraska.....	-	13	-	4	-	-	-	-	42	95	-	3
Kansas.....	-	2	-	7	8	3	5	-	545	194	-	4
SOUTH ATLANTIC.....	-	33	-	41	69	26	43	-	2,724	3,319	2	66
Delaware.....	-	-	-	-	1	-	1	-	53	59	-	-
Maryland.....	-	-	-	-	12	4	8	-	515	408	1	6
Dist. of Columbia..	-	-	-	-	3	1	2	-	50	92	-	-
Virginia.....	-	15	-	-	16	7	9	-	431	677	-	11
West Virginia.....	-	-	-	-	8	7	1	-	402	508	-	-
North Carolina.....	-	3	-	-	6	1	5	-	449	837	-	18
South Carolina.....	-	-	-	7	4	2	2	-	101	136	-	11
Georgia.....	-	12	-	21	5	1	4	-	80	136	-	5
Florida.....	-	3	-	13	14	3	11	-	643	466	1	15
EAST SOUTH CENTRAL...	1	17	1	15	54	28	26	-	2,012	3,102	3	31
Kentucky.....	1	6	-	-	10	7	3	-	735	882	-	8
Tennessee.....	-	5	1	2	24	12	12	-	704	1,201	2	15
Alabama.....	-	4	-	8	12	4	8	-	370	490	1	6
Mississippi.....	-	2	-	5	8	5	3	-	203	529	-	2
WEST SOUTH CENTRAL...	-	37	-	28	57	32	23	2	2,254	2,321	2	25
Arkansas.....	-	6	-	-	4	4	-	-	217	260	1	13
Louisiana.....	-	4	-	6	25	12	13	-	543	471	-	4
Oklahoma.....	-	7	-	-	1	-	1	-	109	105	-	4
Texas.....	-	20	-	22	27	16	9	2	1,385	1,485	1	4
MOUNTAIN.....	-	29	-	3	28	4	5	19	1,733	2,099	-	8
Montana.....	-	-	-	-	2	-	1	1	152	274	-	-
Idaho.....	-	-	-	-	4	-	-	4	233	344	-	-
Wyoming.....	-	-	-	-	2	1	-	1	55	25	-	1
Colorado.....	-	-	-	-	10	1	2	7	464	435	-	-
New Mexico.....	-	1	-	1	1	-	1	-	249	244	-	2
Arizona.....	-	2	-	2	5	-	-	5	385	484	-	5
Utah.....	-	25	-	-	3	2	1	-	144	276	-	-
Nevada.....	-	1	-	-	1	-	-	1	51	17	-	-
PACIFIC.....	1	19	-	14	129	60	66	3	5,034	5,065	-	23
Washington.....	-	-	-	13	15	4	9	2	533	888	-	2
Oregon.....	-	2	-	-	10	5	5	-	543	620	-	-
California.....	1	17	-	1	102	50	52	-	3,684	3,390	-	21
Alaska.....	-	-	-	-	1	1	-	-	175	133	-	-
Hawaii.....	-	-	-	-	1	-	-	1	99	34	-	-
Puerto Rico	-	-	1	10	28	17	11	-	736	659	-	11

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
SEPTEMBER 26, 1964 AND SEPTEMBER 28, 1963 (39TH WEEK) - CONTINUED

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	608	35	2,055	1,833	4,681	3,922	4	210	8	253	67	3,480
NEW ENGLAND.....	31	2	59	112	215	249	1	9	-	1	1	32
Maine.....	2	-	5	17	17	13	-	-	-	-	1	27
New Hampshire.....	4	-	1	4	1	5	-	-	-	-	-	2
Vermont.....	2	1	3	4	1	-	-	-	-	-	-	2
Massachusetts.....	17	1	24	53	27	33	1	9	-	1	-	1
Rhode Island.....	3	-	9	10	12	14	-	-	-	-	-	-
Connecticut.....	3	-	17	24	157	184	-	-	-	-	-	-
MIDDLE ATLANTIC.....	46	4	268	252	155	122	-	19	-	-	4	102
New York City.....	15	-	35	39	4	9	-	-	-	-	-	-
New York, Up-State.	7	1	75	80	117	76	-	7	-	-	4	98
New Jersey.....	10	2	93	35	27	25	-	6	-	-	-	-
Pennsylvania.....	14	1	65	98	7	12	-	6	-	-	-	4
EAST NORTH CENTRAL...	115	6	290	281	316	262	2	38	-	20	5	504
Ohio.....	5	-	74	77	23	29	-	10	-	1	-	263
Indiana.....	36	3	46	40	86	47	2	9	-	2	-	22
Illinois.....	10	1	73	53	60	65	-	12	-	13	2	95
Michigan.....	26	2	67	84	95	76	-	6	-	1	1	47
Wisconsin.....	38	-	30	27	52	45	-	1	-	3	2	77
WEST NORTH CENTRAL...	21	4	126	115	185	180	-	11	1	52	12	1,075
Minnesota.....	-	-	29	22	4	11	-	1	-	2	4	326
Iowa.....	9	-	6	7	46	21	-	5	-	1	5	387
Missouri.....	-	1	57	34	16	8	-	3	1	26	2	166
North Dakota.....	11	1	17	12	80	72	-	-	-	-	1	55
South Dakota.....	1	2	3	5	5	2	-	1	-	15	-	79
Nebraska.....	-	-	6	24	2	-	-	-	-	-	-	33
Kansas.....	NN	-	8	11	32	66	-	1	-	8	-	29
SOUTH ATLANTIC.....	50	6	413	339	475	478	-	54	-	23	17	484
Delaware.....	1	-	6	4	9	5	-	-	-	-	-	-
Maryland.....	5	3	30	50	29	50	-	3	-	-	-	1
Dist. of Columbia..	-	-	13	6	7	1	-	1	-	1	-	-
Virginia.....	6	1	47	74	113	151	-	7	-	5	10	253
West Virginia.....	26	-	32	17	177	128	-	1	-	-	2	30
North Carolina.....	-	-	69	60	17	19	-	13	-	6	-	5
South Carolina.....	8	-	50	18	39	45	-	4	-	-	-	2
Georgia.....	-	-	62	28	10	1	-	4	-	11	3	106
Florida.....	4	2	104	82	74	78	-	21	-	-	2	87
EAST SOUTH CENTRAL...	115	1	170	135	935	810	-	28	1	29	11	426
Kentucky.....	3	-	55	30	45	155	-	8	-	2	1	55
Tennessee.....	107	-	55	60	784	598	-	10	1	19	10	337
Alabama.....	3	1	36	23	67	19	-	6	-	3	-	17
Mississippi.....	2	-	24	22	39	38	-	4	-	5	-	17
WEST SOUTH CENTRAL...	66	4	185	168	615	396	-	24	4	82	11	489
Arkansas.....	-	1	22	11	2	2	-	7	4	47	1	121
Louisiana.....	-	-	118	69	5	2	-	3	-	4	-	45
Oklahoma.....	-	-	9	30	6	4	-	-	-	19	2	83
Texas.....	66	3	36	58	602	388	-	14	-	12	8	240
MOUNTAIN.....	73	1	71	60	1,043	772	-	5	2	43	3	122
Montana.....	24	-	-	3	38	41	-	-	-	18	-	-
Idaho.....	7	-	3	6	64	43	-	-	-	-	-	-
Wyoming.....	1	-	5	4	10	12	-	2	-	8	-	-
Colorado.....	5	-	12	16	338	177	-	-	-	-	-	8
New Mexico.....	4	1	29	4	329	341	-	1	-	-	-	48
Arizona.....	28	-	6	10	150	93	-	1	-	-	1	53
Utah.....	4	-	7	14	114	65	-	1	2	17	1	2
Nevada.....	-	-	9	3	-	-	-	-	-	-	1	11
PACIFIC.....	91	7	473	371	742	653	1	22	-	3	3	246
Washington.....	27	1	31	28	146	155	1	2	-	-	-	-
Oregon.....	17	-	21	27	4	4	-	-	-	1	1	9
California.....	37	6	402	296	480	396	-	19	-	2	2	237
Alaska.....	-	-	7	12	9	16	-	-	-	-	-	-
Hawaii.....	10	-	12	8	103	82	-	1	-	-	-	-
Puerto Rico	142	-	30	7	11	8	-	59	-	-	-	24

Table 4 (C). TOTAL DEATHS UNDER 1 YEAR OF AGE IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	9/5	9/12	9/19	9/26
NEW ENGLAND:				
Boston, Mass.	21	14	17	10
Bridgeport, Conn.	3	4	1	2
Cambridge, Mass.	-	1	1	-
Fall River, Mass.	1	1	-	1
Hartford, Conn.	6	3	5	4
Lowell, Mass.	-	-	2	1
Lynn, Mass.	1	1	-	1
New Bedford, Mass.	1	1	-	1
New Haven, Conn.	1	5	5	1
Providence, R.I.	7	5	3	4
Somerville, Mass.	1	-	-	2
Springfield, Mass.	2	3	3	2
Waterbury, Conn.	3	5	2	1
Worcester, Mass.	3	2	2	5
MIDDLE ATLANTIC:				
Albany, N.Y.	2	1	1	1
Allentown, Pa.	1	2	3	1
Buffalo, N.Y.	9	9	7	5
Camden, N.J.	-	2	4	4
Elizabeth, N.J.	1	2	2	4
Erie, Pa.	-	2	3	1
Jersey City, N.J.	2	3	1	4
Newark, N.J.	40	5	4	7
New York City, N.Y.	83	71	75	77
Paterson, N.J.	-	4	7	2
Philadelphia, Pa.	36	11	32	20
Pittsburgh, Pa.	9	3	5	12
Reading, Pa.	4	-	1	3
Rochester, N.Y.	10	5	9	3
Schenectady, N.Y.	1	2	-	-
Scranton, Pa.	1	1	-	-
Syracuse, N.Y.	1	3	3	6
Trenton, N.J.	1	-	3	2
Utica, N.Y.	2	1	-	-
Yonkers, N.Y.	1	2	-	1
EAST NORTH CENTRAL:				
Akron, Ohio	4	-	4	6
Canton, Ohio	3	4	2	3
Chicago, Ill.	54	37	42	50
Cincinnati, Ohio	18	7	7	5
Cleveland, Ohio	8	10	14	18
Columbus, Ohio	6	12	9	2
Dayton, Ohio	3	8	4	16
Detroit, Mich.	19	17	24	18
Evansville, Ind.	1	-	2	3
Flint, Mich.	9	5	4	7
Fort Wayne, Ind.	3	1	-	-
Gary, Ind.	3	3	1	5
Grand Rapids, Mich.	2	4	5	3
Indianapolis, Ind.	7	11	16	11*
Madison, Wis.	3	5	2	1
Milwaukee, Wis.	5	3	4	6
Peoria, Ill.	2	7	3	1
Rockford, Ill.	3	2	5	2
South Bend, Ind.	3	2	2	2
Toledo, Ohio	5	2	4	6
Youngstown, Ohio	1	7	-	3
WEST NORTH CENTRAL:				
Des Moines, Iowa	5	1	6	3
Duluth, Minn.	1	1	1	-
Kansas City, Kans.	6	3	6	8
Kansas City, Mo.	9	5	10	10
Lincoln, Nebr.	-	3	-	6
Minneapolis, Minn.	7	5	4	10
Omaha, Nebr.	7	7	8	6*
St. Louis, Mo.	9	12	11	12
St. Paul, Minn.	4	1	1	5
Wichita, Kans.	3	1	11	3
SOUTH ATLANTIC:				
Atlanta, Ga.	13	9	12	12
Baltimore, Md.	24	28	17	27
Charlotte, N.C.	8	3	2	2
Jacksonville, Fla.	9	5	4	15
Miami, Fla.	3	2	9	4
Norfolk, Va.	7	3	5	7
Richmond, Va.	10	3	13	5
Savannah, Ga.	-	4	2	2
St. Petersburg, Fla.	2	2	1	1
Tampa, Fla.	3	9	3	3
Washington, D.C.	15	2	41	11
Wilmington, Del.	1	-	6	3
EAST SOUTH CENTRAL:				
Birmingham, Ala.	5	9	8	9
Chattanooga, Tenn.	5	6	3	-
Knoxville, Tenn.	2	7	6	2
Louisville, Ky.	6	18	12	17
Memphis, Tenn.	10	9	17	7
Mobile, Ala.	6	2	3	7
Montgomery, Ala.	8	10	3	4
Nashville, Tenn.	2	6	6	3
WEST SOUTH CENTRAL:				
Austin, Tex.	3	2	5	5
Baton Rouge, La.	2	10	2	1
Corpus Christi, Tex.	1	3	5	3
Dallas, Tex.	20	16	16	7
El Paso, Tex.	5	4	8	4
Fort Worth, Tex.	3	10	4	6
Houston, Tex.	15	12	12	17
Little Rock, Ark.	6	3	3	10
New Orleans, La.	18	13	13	12
Oklahoma City, Okla.	8	9	4	10
San Antonio, Tex.	10	16	15	8
Shreveport, La.	11	2	2	2
Tulsa, Okla.	4	5	2	1
MOUNTAIN:				
Albuquerque, N. Mex.	2	2	3	3
Colorado Springs, Colo.	-	1	3	1
Denver, Colo.	13	3	6	9
Ogden, Utah.	2	-	2	3
Phoenix, Ariz.	5	5	2	1
Pueblo, Colo.	1	1	-	1
Salt Lake City, Utah.	3	4	2	6
Tucson, Ariz.	2	1	1	5
PACIFIC:				
Berkeley, Calif.	-	1	1	1
Fresno, Calif.	6	4	3	3
Glendale, Calif.	-	-	4	1
Honolulu, Hawaii	4	3	8	6
Long Beach, Calif.	6	4	3	2
Los Angeles, Calif.	29	21	24	32
Oakland, Calif.	3	3	4	9
Pasadena, Calif.	1	1	1	1*
Portland, Oreg.	2	3	3	4
Sacramento, Calif.	7	3	3	2
San Diego, Calif.	9	5	7	13
San Francisco, Calif.	8	2	13	4
San Jose, Calif.	3	1	2	1
Seattle, Wash.	9	1	3	8
Spokane, Wash.	1	2	1	2*
Tacoma, Wash.	2	1	1	-

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	11,070
4(B) Pneumonia-Influenza Deaths, all ages	369
4(C) Total Deaths under 1 Year of Age	717
4(D) Total Deaths, Persons 65 years and over	6,121

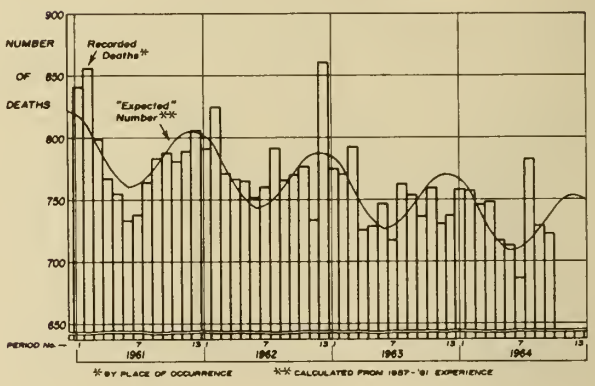
UNIVERSITY OF FLORIDA
3 1262 08864 3001

INFANT DEATHS IN 108 CITIES

The weekly average number of infant deaths in 108 cities for the four-week period ending September 26 was 722 as compared with an expected 738 weekly average.

	Week Ending				4 Week	Weekly
	9/5	9/12	9/19	9/26	Total	Average
Observed	791	639	741	717	2,888	722
Expected	734	737	739	742	2,952	738
Excess	57	-98	2	-25	-64	-16

DEATHS UNDER ONE YEAR OF AGE IN 108 U.S. CITIES
Average Number per Week by Four-Week Periods



(See table page 347)

INTERNATIONAL NOTES – QUARANTINE MEASURES

Immunization Information for International Travel
1963-64 edition Public Health Service Publication No. 384

SECTION 5

AFRICA

Algeria, page 22, Insert:

Yellow Fever–Vaccination is required for all arrivals from infected areas by air.

All other information remains the same.

Central African Republic, page 23

Delete the information under yellow fever and insert:

Yellow Fever–Vaccination is required for all arrivals, 1 year-of-age and over, except travelers arriving from a noninfected area and staying less than 2 weeks in the country.

Camora Islands, page 24

Delete all information under cholera and yellow fever.

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 12,000 IS PUBLISHED BY THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA 30333.

CHIEF, COMMUNICABLE DISEASE CENTER — JAMES L. GODDARD, M.D.
CHIEF, EPIDEMIOLOGY BRANCH — A. D. LANGMUIR, M.D.
CHIEF, STATISTICS SECTION — R. E. SERFLING, PH.D.
ASST. CHIEF, STATISTICS SECTION — I. L. SHERMAN, M.S.
CHIEF, SURVEILLANCE SECTION — D. A. HENDERSON, M.D.
ASSISTANT EDITOR, MMWR — PAUL O. STOLLEY, M.D.

IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASES, SUCH ACCOUNTS SHOULD BE ADDRESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: --- DATA NOT AVAILABLE
- QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

U. S. DEPARTMENT OF
HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE
Communicable Disease Center
Atlanta, Georgia 30333

Official Business

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF H. E. W.

UNIV. OF FL LIB.
DOCUMENTS DEPT.
U.S. DEPOSITORY